

AUTHORS: Khomyakov, V. G., Kruglikov, S. S., SOV/79-26-10-59/60
~~Berezovskiy, V. M.~~

TITLE: Electrosynthesis of Nicotinic Acid (Elektrosintez nikotinovoy kisloty)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 20, Nr 10,
pp 2098 - 2902 (USSR)

ABSTRACT: Only few papers have been published on the electro-chemical oxidation of β -picoline into nicotinic acid and of quinoline into quinolinic acid which is readily decarboxylized into the former. Thus attempts have been made to convert the α -, β - and γ -picolines into the corresponding aldehydes by means of electrical oxidation, but yields were poor (Ref 1). In the same way, the electrolytical oxidation of β -picoline into nicotinic acid was carried out in 30% sulfuric acid, and that of quinoline into quinolinic acid was carried out in 75-80% (Ref 2). There are also well-known attempts to obtain nicotinic acid from nicotine, anabasine, and N-methylanabasine by means of electrosynthesis

Card 1/3

Electrosynthesis of Nicotinic Acid

SOV/79-28-10-59/60

(Refs 4-6). The electrochemical synthesis of the two acids is of great interest as it dispenses with oxidizing agents and catalysts; however, publication data on this synthesis do not suffice to warrant its practical utilization. In the paper under consideration, which deals with the electrochemical oxidation of β -picoline, the authors have investigated the influence on the nicotinic acid yield of the current quantity flowing through the electrolyte, of the current density, temperature, of the added quantities of Mn^{++} and Cr^{+++} , of the β -picoline concentration and of the sulfuric acid concentration. An investigation was also made into the effect of the conditions under which the electrolysis is carried out on the speed of the electrooxidation of β -picoline into nicotinic acid. In addition to this, the influence of the concentration of sulfuric acid and of quinoline on the quinolinic acid yield in the electrooxidation of quinoline was examined. There are 2 figures, 6 tables, and 9 references, 5 of which are Soviet.

Card 2/3

Electrosynthesis of Nicotinic Acid

SOV/72-28-10-59/60

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleyeva i Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut (Moscow Chemotechnological Institute imeni D.I.Mendeleyev and All-Union Scientific Research Institute of Vitamins)

SUBMITTED: July 19, 1957

Card 3/3

BEREZOVSKIY, Vladimir Mironovich; NAZAROV, I.N., akademik, retsenzent;
PNEOBRAZHENSKIY, N.A., prof., doktor khim.nauk, zasluzhennyy
deyatel' nauki, spetsred.; KALMENS, R.I., red.; BELIKOVA,
L.S., red.

[Chemistry of vitamins] Khimiia vitaminov. Moskva, Pishche-
promizdat, 1959. 599 p. (MIRA 13:1)
(VITAMINS)

5 (3)

AUTHORS: Berezovskiy, V. M., Sobolev, Yu. P. SOV/79-29-4-67/77

TITLE: Catalytic Reduction of the Halogen-Alkyl Substituted Aromatic Nitrocompounds (Kataliticheskoye vosstanovleniye galogenalkil-zameshchennykh aromaticheskikh nitrosoyedineniy)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1353 - 1358 (USSR)

ABSTRACT: In the present paper is shown that a secondary alkylation reaction of the aromatic amine with the not yet reduced halogen-alkyl substituted aromatic nitrocompound is the reason of the small yields of o-4-xylydine (II) which is formed in the case of the hydrogenation of 2-chloro-methyl-4-nitrotoluene (I) in the presence of the skeleton nickel catalyst. The produced amine (III) is then hydrogenated into xylydine (IV) which is isolated and easily determined with respect to structure by an analysis which is directed towards the primary amino group (Scheme). The catalytic hydrogenation of (I) is apparently complicated by the formation of the triamine (VI) on the strength of the alkylation of the secondary amine (III) by (I) into the tertiary amine (V) which for its part is transformed into (VI) by a further reduction. The triamine (VI) could be easily obtained by the alkylation.

Card 1/2

Catalytic Reduction of the Halogen-Alkyl Substituted Aromatic Nitrocompounds SOV/79-29-4-67/77

tion of the compound (III) in the presence of sodium bicarbonate and immediately by the alkylation of the o-4-xylydine (II) in a neutral medium. In the presence of pyridine the monoalkylation reaction yields only 75% since a side formation of the quaternary pyridine salt with (I) takes place. On the strength of this fact the dialkylation reaction in the presence of pyridine does not take place. It was shown that the alkylation products of o-4-xylydine (II) with (I) are in the case of the reduction with hydrogen subjected to a hydrogenolysis in the presence of the palladium catalyst as well as in the presence of the skeleton nickel catalyst, in the last case best at 100° under pressure. 5 hitherto unknown compounds were obtained. There are 2 references, 1 of which is Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut (All-Union Scientific Research Institute of Vitamins)

SUBMITTED: March 6, 1958

Card 2/2

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.

Obtaining 3,4-xylyl- β -d-ribitylamine from a mixture of d-ribose
and d-arabinose. Trudy VNIIV 6:5-10 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.
(RIBITYLAMINE)

BEREZOVSKIY, V.M.; SOBOLEV, Yu.P.

Reduction of the d-ribno- γ -lactone to d-ribose by an amalgam
of sodium. Trudy VNIVI 6:34-39 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.
(RIBOSE)

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.

Double reaction capacity of stereoisomeric arylglycamines in
the azo coupling reaction. Trudy VNIVI 6:39-41 '59.

(MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.

(GLYCAMINES)

BEREZOVSKIY, V.M.; STREL'CHUNAS, L.I.

Efficient method for the hydrolysis, enolization, and lactonization
of diacetone-2-keto-1-gulonic acid into ascorbic acid. Trudy VNIVI
6:55-60 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.
(ASCORBIC ACID)

BEREZOVSKIY, V.M.

Current tasks in the field of the chemistry and technology of
vitamins and prospects for the development of their production.
Med. prom. 14 no.5:7-23 My '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(VITAMINS)

BFEREZOVSKIY, V. M., KRIVOSHEINA, N. K., YURKEVITCH, A. M., (USSR)

"Investigations in the Area of Synthesizing New Biologically
Active Compounds Related to Vitamin B₂."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow,
10-16 Aug. 1961.

BEREZOVSKIY, V.M.; MEL'NIKOVA, L.M.

Synthesis of thioriboflavin and thio analogs of alloxazine. Trudy
VNIVI 8:12-13 '61. (MIRA 14:9)

1. Laboratoriya kofermentov Vsesoyuznogo nauchno-issledovatel'skogo
vitaminного instituta.
(Riboflavin) (Alloxazine)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.; VOLIKOVA, N.G.

New synthesis of 5,6-dimethylbenzimidazole. Zhur.ob.khim. 30
no.10:3434-3437 0 '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Benzimidazole)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Series of alloxazine and iscalloxazine. Part 2: New synthesis
of the compounds of the alloxazine series. Zhur.ob.khim.
31 no.8:2779-2782 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Alloxazine)

BEREZOVSKIY, V.M.; YURKEVICH, A.M.; KRIVOSHEINA, I.K.

Chromatographic and electrophoretic study of the formation
reaction of folic acid and some simple pterins. Zhur.ob.khim.
31 no.8:2782-2786 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Folic acid) (Pterins)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Rearrangement of triazenes. Part 2: Synthesis of aromatic o-aminoazo compounds not corresponding in structure to the components of initial triazenes. Zhur. ob. khim. 31 no. 11:3614-3621 N '61.
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Triazene) (Azo compounds)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.; YEREMENKO, T.V.; RODIONOVA, Ye.P.
BARSKAYA, M.A.

Series of alloxazine and isalloxazine. Part 5: Catalysts of the
reaction of secondary aromatic orthoaminoazo compounds with
trihydroxypyrimidines. Zhur. ob. khim. 31 no. 11:3689-3694 N '61.
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Alloxazine) (Isoalloxazine) (Catalysts)

BEREZOVSKIY, V.M.; YURKEVICH, A.M.

Alloxazine and iscalloxazine series. Part 6: Synthesis of
quinoxalines, potential precursors of alloxazines. Zhur. ob.
khim. 31 no. 11:3775-3781 N '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Quinoxaline) (Alloxazine)

BEREZOVSKIY, V.M.; MEL'NIKOVA, L.M.

Alloxazine and iscalloxazine series. Part 3: Synthesis of
thioriboflavine and thio analogs of alloxazine. Zhur. ob.
khim. 31 no. 11:3827-3831 N '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(R'boflavine) (Alloxazine)

BEREZOVSKIY, V.M.; YEREMENKO, T.V.

Alloxazine and iscalloxazine series. Part 4: New synthesis of 2'-
deoxyriboflavine and synthesis of its 2-thio analog. Zhur. ob.
khim. 31 no. 11:3831-3835 N '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Riboflavine)

BEREZOVSKIY, V.M.; ARTEMKINA, R.V.

New methods of synthesizing nucleotide coferments. Usp.khim.
31 no.6:724-751 Je '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminyy institut,
laboratoriya khimii kofermentov.
(Nucleotides) (Enzymes)

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.

Rearrangements of triazenes. Part 3: Rearrangement of aromatic compounds with a fixed triazene system. Zhur.ob.khim. 32
no.3:853-857 Mr '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Triazene)

BEREZOVSKIY, V.M.; YURKEVICH, A.M.

Improved synthesis of adenine. Zhur.ob.khim. 32 no.5:1655-1659
My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Adenine)

BEREZOVSKIY, V.M.; GLEBOVA, G.D.

New reaction of o-phenylenediamines with violuric acid. Dokl.
AN SSSR 143 no.6:1341-1344 Ap '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Predstavleno akademikom B.A.Kazanskim.
(Phenylenediamine) (Violuric acid)

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.; GURKO, L.N.

Alloxazine and iscalloxazine series. Part 7: Interaction
of alloxan with anilines and phenylenediamines. Zhur.ob.khim.
32 no.10:3368-3372 0 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy
institut.

(Alloxan)

(Aniline)

~~Phenylenediamine~~

BEREZOVSKIY, V.M.; GLEBOVA, G.D.

New method of synthesizing alloxazines. Condensation of aromatic o-diamines with violuric acid and its thio analogs. Dokl. AN SSSR 146 no.2:355-358 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. Predstavleno akademikom B.A. Kazanskim.
(Alloxazine) (Violuric acid) (Amines)

MIKHNO, S.D.; BEREZOVSKIY, V.M.; PREOBRAZHENSKIY, N.A.

Synthesis of γ -formylbutyric ester. Zhur.ob.khim. 32 no.9:2829-
2831 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Glutaraldehydic acid)

BEREZOVSKIY, V.M.; GURKO, L.N.; RODIONOVA, Ye.P.

Nonspore-forming synthesis of 4,5,N',N'-tetramethyl-1,2-diaminobenzene.
Zhur.ob.khim. 32 no.9:2951-2954 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Benzene) (Methylation)

BEREZOVSKIY, V. M.; KOLTUNOVA, V. I.; SHLIMOVICH, Ye. A.; DEVYATNIN, V. A.

Nucleotides, coferments, phosphoric esters. Part 1: Synthesis
of a monophosphoric ester of thiamine phosphate. Zhur. ob.
khim. 32 no.12:3890-3892 D '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

(Thiamine) (Phosphoric acid)

BEREZOVSKIY, V. M.; YEREMENKO, T. V.

Allo- and isocalloxazine series. Part 8: Synthesis of galacto-
flavine, antagonist of the vitamin-B₂. Zhur. ob. khim. 32
no.12:4056-4059 D '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

(Alloxazine) (Isoalloxazine)

BERGZOVSKIY, V.M., doktor khimicheskikh nauk; MOROZOVA, G.N.

Vitamins in animal husbandry. Zhur. VKHO 8 no.6:630-638 '63.
(MIRA 17:2)

BEREZOVSKIY, V.H.; YEREMENKO, T.V.

Chemistry of allo- and isoalloxazines. Usp. khim. 32 no.6:
671-706 Je '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Alloxazine) (Isoalloxazine)

BEREZOVSKIY, V. M.; KOLTUNOVA, V. I.; PEKEL', N. D.; SHLIMOVICH, Ye. A.

Nucleotides, coenzymes, phosphoric esters. Part 2: Synthesis
of cocarboxylase. Zhur. ob. khim. 33 no.1:49-55, '63.
(MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

(Cocarboxylase)

MAZHUR, A.G.; BRUSHKO, S.S.; BEREZOVSKIY, V.M.

Comparison of thiamine phosphate and free thiamine assimilation.
Vop. pit. 23 no.6:77-80 N-D '64. (MIRA 18:6)

1. Kafedra bikhimii (zav. - doktrent Yu.M.Ostrovskiy) Grodnenskogo meditsinskogo instituta, Grodnenskaya oblasnaya bol'nitsa i laboratoriya sinteza kofermentov (zav. - V.M.Berezovskiy) Vsesoyuznogo nauchno-issledovatel'skogo vitaminogo instituta, Moskva.

BEREZOVSKIY, V.M.; GLEBOVA, G.D.

Alloxazine and isocalloxazine series. Part 11: Synthesis of
riboflavine and lumiflavine. Zhur. ob. khim. 34 no. 3:1014-1017
Mr '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, I.S.; POLYAKOVA, N.A.

Alloxazine and isoalloxazine series. Part 13: Synthesis of
7 aminoalloxazine, 7-amino(demethyl)riboflavine and their
derivatives. Zhur. ob. khim. 35 no.4:673-677 Ap '65.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

BEREZOVSKIY, V.M.; ARTEMKINA, R.V.; CHERNOVA, M.A.

Nucleotides, coenzymes, and phosphoric esters. Part 2: Separation and hydrolytic splitting of phosphoric esters of riboflavine. Zhur. ob. khim. 35 no.4:677-681 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

MOZZHUKHIN, D.D.; KHIDEKEL', M.L.; ALEKSANDROVA, Ye.N.; ZELFEN, S.N.;
BEREZOVSKIY, V.M.

Flavine catalysis of hydrogen transport from dihydroxyridines
and similar compounds. Izv. AN SSSR. Ser. khim. no.9:1694-
1694 '65. (MIRA 18:5)

1. Institut khimicheskoy fiziki AN SSSR.

ACC NR: AP7011827

SOURCE CODE: UR/0079/66/036/010/1749/1752

AUTHOR: Khomutova, Ye. D.; Shapiro, T. A.; Berezovskiy, V. M.

ORG: All-Union Vitamin Scientific Research Institute (Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut)

TITLE: Nucleotides, coenzymes, phosphate esters. XI. On the migration of secondary O-phosphate groups with riboflavin phosphates

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1749-1752

TOPIC TAGS: phosphate ester, coenzyme, phosphate, hydrolysis, vitamin

SUB CODE: 07

ABSTRACT: An effort was made to prepare riboflavin phosphate, phosphorylated on the secondary (2',3',4') hydroxyl groups, the primary hydroxyl group of riboflavin being protected with a trityl group. It was found that phosphorylation of 5'-tritylriboflavin with beta-cyanoethyl phosphate yields the corresponding substituted phosphate ester, 5'-tritylriboflavin-2',3',4'-tri(beta-cyanoethyl) phosphate. When the protective groups (trityl and beta-cyanoethyl) were removed by successive treatment with 10% acetic acid and 2N ammonia solution, the only reaction product was riboflavin-5'-phosphate, instead of the expected riboflavin-2',3',4'-triphosphate, indicating a migration of the phosphate residue from the secondary to the

Cord 1/2

UDC: 547.859:577.150.13:577.164.12

ACC NR: AP7011827

primary hydroxyl group in riboflavin-2',3',4'-triphosphate and simultaneous hydrolysis of the remaining phosphoester groups at the secondary hydroxyls. The same riboflavin-5'-phosphate was the only reaction product when the protective groups were removed in the opposite sequence. Beta-cyanoethyl phosphate smoothly

phosphorylates riboflavin under mild conditions, yielding riboflavin-5'-(beta-cyanoethyl) phosphate. The latter is entirely converted in acid medium to riboflavin-5'-phosphate, without any admixture of polyphosphate esters.

Orig. art. has: 1 formula. [JPRS: 40,351]

Cord 2/2

ACC NR: AP7011828

SOURCE CODE: UR/0079/66/036/010/1753/1755

AUTHOR: Adanyayeva, R. V.; Olovyanishnikova, Z. A.; Berezovskiy, V. M.

ORG: All-Union Vitamin Scientific Research Institute (Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut)

TITLE: Nucleotides, coenzymes, phosphate esters. XII. Synthesis of riboflavin-5'-diphosphate with participation of trichloroacetonitrile as a condensing agent

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1753-1755

TOPIC TAGS: coenzyme, phosphate ester, vitamin, orthophosphoric acid, phosphorylation

SUB CODE: 07

ABSTRACT: A detailed study was made of the phosphorylation of riboflavin by orthophosphoric acid under various conditions. Increasing the duration of the phosphorylation was found to result in the formation of substantial amounts of riboflavin-5'-diphosphate and polyphosphate esters of riboflavin. The addition of triethylamine during phosphorylation in pyridine medium greatly inhibits the phosphorylation reaction. The addition of a condensing agent, trichloroacetonitrile, resulted not only in the production of riboflavin-5'-monophosphate and riboflavin-5'-diphosphate, but also two new compounds, probably imido esters of riboflavin-5'-

Card 1/2

UDC: 547.859.577.150.13; 577.164.12
82.32 82.21

ACC NR: AP7011828

monophosphate and riboflavin-5'-diphosphate. Phosphorylation of riboflavin-5'-phosphate by orthophosphoric acid in the presence of the condensing agent trichloroacetonitrile was found to lead to the formation of riboflavin-5'-diphosphate. There was practically no formation of riboflavin-5'-diphosphate from the monophosphate under the same conditions in the absence of trichloroacetonitrile.

Orig. art. has: 1 formula. [JPES: 40,351]

Card 2/2

BELYAYEV, V.V., inzh.-kapitan pervogo ranga; ~~BEREZOVSKIY, V.N., kapitan~~
pervogo ranga; KVITNITSKIY, A.A., kapitan pervogo ranga;
KOVALEV, A.P., kapitan pervogo ranga zapasa; RODIONOV, A.I.,
kontr-admiral, red.; MASLOVA, N.Ya., tekhn. red.

[Antisubmarine defense in modern warfare; collection of trans-
lated articles]Protivolodochnaya oborona v sovremennoi voine;
sbornik perevodnykh statei. Moskva, Voenizdat, 316 p.

(MIRA 15:10)

(Submarine warfare)

OGLOBLIN, A.N.; ~~BEREZOVSKIY, V.N.~~, retsenzent; OL'BINSKIY, Z.M., inzh.,
retsenzent; PLOTITSYN, V.G., kand. tekhn. nauk, red.; LEYKINA,
T.L., red. izd-va; SHCHETININA, L.V., tekhn. red.; SPERANSKAYA,
O.V., tekhn. red.

[Handbook for milling-machine operators] Spravochnik frezerov-
shchika. Izd.2., perer. i dop. Moskva, Mashgiz, 1962. 446 p.
(MIRA 16:2)

(Milling machines)

BEREZOVSKIY, V. N. ENG8

600

1. BEREZOVSKIY, V. N., Engineer

2. USSR (600)

Machine-Tool Plant imeni Sverdlov "Universal Machine Tool Vices" Stanki i Instrument, 12, No. 5, 1941.

9. ~~SECRET~~ Report U-1503, 4 Oct. 1951

DANIEL'YANTS, A.A., inzhener; BEREZOVSKIY, V.N., inzhener.

Designing guides for the rapid machining of holes on horizontal and radial boring and drilling machines. [1st] LONITOMASH
24:199-217 '51. (MIRA 8:2)

1. Zavod imeni Sverdlova.
(Drilling and boring machines)

USSR/Miscellaneous - Industrial Processes

Card 1/1

Subject:

Source:

Reference:

Summary:

Comments:

Remarks:

OGLOBLIN, Aleksandr Nikolayevich; ~~BEREZOVSKIY~~, V.M., inzh., retsenzent;
OL'BINSKIY, Z.M., retsenzent; GLAZOV, G.A., inzh., red.;
BORODULINA, I.A., red.isd-va; SPERANSKAYA, O.V., tekhn.red.

[Lathe operator's manual] Spravochnik tokarja. Izd.5.. perer.
i dop. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry,
1960. 509 p. (MIRA 14:1)

(Turning)

S/070/60/005/006/004/009
EO21/E306

AUTHORS: Finkel', V.M. and Berezovskiy, V.N.

TITLE: Study of the Shape and Size of X-ray Interference
Spots of Elastically-deformed Transformer Steel

PERIODICAL: Kristallografiya, 1960, Vol. 5, No. 6,
pp. 896 - 903 + 1 plate

TEXT: The reflections of X-rays from loaded and unloaded polycrystalline samples of transformer iron have been studied using an X-ray camera with an equivalent convergence of the X-ray beam of 9-15°. 40 specimens were studied and reversible changes in the interference spots occurred only in 10 of them. The relative quantity of spots changing in a reversible manner was very small - 1-5% in the majority of cases and never greater than 12%. Thus it can be assumed that reversible changes in grains in the process of elastic extension is a rare phenomenon. There were three main types of elastic changes in the grains of the polycrystal: a decrease in perfection of the crystallites; an increase in

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S/070/60/005/006/004/009
E021/E306

Study of the Shape and Size of X-ray Interference Spots
of Elastically-deformed Transformer Steel

perfection of the crystallites, and intensive rotation of several crystallites. A decrease in perfection was shown by an increase in size of the spots in the direction of the acting stresses and also in a tangential direction. An increase in perfection was shown by a decrease in size of the spots, a decrease in their intensity and the disappearance of individual spots. Rotation of crystallites was shown by the interrelated displacement and rotation of spots and also from changes in the ratio of intensity of the components of the K_{α} -doublet. It was established that, as a rule, during elastic deformation, the reflections from the most imperfect crystallites change. This was as a result of considerable local stress gradients in, and in the neighbourhood of, the grain boundaries. The microstresses

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S/070/60/005/006/004/009
E021/E306

Study of the Shape and Size of X-ray Interference Spots
of Elastically-deformed Transformer Steel

involved could be quite high and could result in the
creation of a microcrack. Acknowledgment is made to
Professor Yu.V. Grdina, in whose laboratory the work was
executed.

There are 9 figures, 1 table and 18 references: 14 Soviet
and 4 non-Soviet.

ASSOCIATION: Sibirskiy metallurgicheskiy institut
imeni S. Ordzhonikidze (Siberian
Metallurgical Institute imeni
S. Ordzhonikidze)

SUBMITTED: October 9, 1959

Card 3/3

FINKEL', V.M.; BEREZOVSKIY, V.N.

Investigating the substructure of electrical steel in connection
with elastic deformation. Fiz. met. i metalloved. 13 no.2:
268-274 F '62. (MIRA 15:3)

1. Sibirskiy metallurgicheskiy institut im. S.Ordzhonikidze.
(Steel--Metallography)
(Deformations (Mechanics))

FINKEL', V.M.; BEREZOVSKIY, V.N.; ZRAYCHENKO, V.A.

Elastic and plastic deformation of transformer steel. Izv.
vys. ucheb. zav.; chern. met. 6 no.12:126-132 '63.
(MIRA 17:1)

1. Sibirskiy metallurgicheskiy institut.

ACCESSION NR: AR4042234

S/0124/64/000/006/V071/V071

SOURCE: Ref. zh. Mekhanika, Abs. 6V599

AUTHOR: Finkel', V. M.; Berezovskiy, V. N.

TITLE: X-ray investigation of structure of transformer iron under elastic load and in process of relaxation of stresses

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat, 1963, 303-308

TOPIC TAGS: steel, transformer steel, x-ray investigation, elastic load, stress relaxation

TRANSLATION: Investigates change of transformer steel substructure, subjected to elastic and plastic flow, and also prolonged macroelastic load. All forms of load and deformation of samples are conducted directly in an X-ray chamber. There is used the method of a wide convergent micro-

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Card 1/3

ACCESSION NR: AR4042234

bundle; investigates reflections from planes (310) in $\text{CoK}\alpha$ -radiation. There are determined disorientation and degree of perfection fragments in the grain, and also the quantity of reflexes on the X-ray photograph. In the macroelastic region load there is observed mutual turn of fragments in one crystallite, a mutual turn of grains and change of range orientations in radial and azimuthal directions. In region of low plasticity substructural changes, observed under macroelastic load, with transition beyond the limits of elasticity ($\sim 30 \text{ kg/mm}$) are developed in the direction of decrease of perfection of crystallites. After small plastic flow there is observed reversibility in change of dimensions and form of reflexes. Prolonged load (1000 - 16000 hrs) in macroelastic region leads to decrease quantity of reflexes on X-ray photograph; disappearance of certain reflexes is partially compensated by appearance of new ones. During prolonged load beyond the limits of elasticity there is observed qualitatively the same phenomenon, intensely occurring basically only at the initial moment of load. Concludes that structural changes in steel both during elastic and low plastic flow, and also under constant load in time have a more or less common character and are the result of consecutive episodic processes of relaxation of stresses in microvolumes. Bibliography: 6 references.

Card 2/3

ACCESSION NR: AR4042234

SUB CODE: MM, OP

ENCL: 00

Card 3/3

BEREZOVSKIY, V.N., kapitan 1-go rango

Recurrent confirmation of the preparation of foreign navies
for a thermonuclear war. Mor. sbor. 47 no.8:88-94 Ag '64.
(MIRA 18:7)

FINKEL', V.M.; BEREZOVSKIY, V.N.

Movement of dislocations under the effect of the macroelastic loading of silicon iron. Fiz. met. i metalloved. 20 no.4:597.. 602 0 '65. (MIRA 18:11)

1. Sibirskiy metallurgicheskiy institut imeni S.Ordzhonikidze.

91-58-8-18/34
AUTHORS: Kotel'nikov, V.P., Technician; Bereзовskiy, V.P., Fitter
TITLE: A Device for Testing Tachometers (Ustanovka dlya proverki
takhometrov)
PERIODICAL: Energetik, 1958, Nr 8, pp 24 (USSR)
ABSTRACT: The device described consists of a gearing system driven
by an electric drill and by which any number of rpms may
be selected from 70 to 2,000 rpm. The assembly is connect-
ed to the tachometer to be tested and also to a collector-
pulsator. This transforms direct current into alternating
current with a pulse equal to the number of revolutions of
the assembly. In turn, the ac. current is fed to an electric
timer which acts as a revolution counter. If the number
of revolutions indicated on the scale of the tachometer co-
incides with the actual number of revolutions registered by
the counter, the tachometer is functioning correctly.
There is 1 diagram.
1. Tachometers--Testing equipment

Card 1/1

VITKIN , A.I.; PETROVA, Ye.S.; BEREZOVSKIY, V.V.

Greasing of cans in a high voltage field. Kons.1 ov.prom. 15
no.7:26-27 J1 '60. (MIRA 13:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.

(Tin cans)

SHUMNAYA, V.A., inzh.; Prinimali uchastiye: MOROZOVA, E.I., nauchnyy sotrudnik;
BEREZOVSKIY, V.V., nauchnyy sotrudnik

Pilot plant equipment for the rapid lacquering of black steel
strip. Sbor. trud. TSNIICHM no.28:212-223 '62. (MIRA 15:11)
(Lacquer and Lacquering--Equipment and supplies)
(Sheet steel)

BEREZOVSKIY, V.V., inzh.

Slit sprayer for the lacquering of a steel strip in an electric
field. Sbor. trud. TSNIICM no.28:233-237 '62. (MIRA 15:11)
(Spray painting, Electrostatic)

MOROZOVA, E.I., inzh.; Prinimal uchastiye: BEREZOVSKIY, V.V., mladshiy
nauchnyy sotrudnik

Effect of electric field intensity on the degree of dispersion of
spray guns. Sbor. trud. TSNIICHHM no.28:224-232 '62. (MIRA 15:11)
(Spray painting, Electrostatic)

BEREZOVSKIY, V.V., inzh.

Device for the investigation of the lacquer spraying process on
a corona electrode. Sbor. trud. TSNIICHHM no.28:238-240 '62.
(MIRA 15:11)
(Spray painting, Electrostatic--Testing)
(Corona (Electricity))

ALEKSANDROVA, L.K., inzh.; BEREZOVSKIY, V.V., inzh.; VITKIN, A.I., doktor
tekhn.nauk; KEGELES, A.S., inzh.; SHEYER, E.A., inzh.; SHNOL', R.B.,
inzh.; SHUMNAYA, V.A., inzh.

Coating thin steel strips with plastics. Sbor. trud. TSNIICHM
no.34:70-81 '63. (MIRA 17:4)

ZEMLYANSKIY, S.V. [Zemlians'kiy, S.V.]; BEREZOVSKIY, V.Ya. [Berezovs'kiy, V.IA.]

Changes in the temperature of the gastric mucosa due to the effect of histamine. Fiziol. zhur. [Ukr.] 6 no.3:336-343 My-Je '60.

(MIRA 13:7)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR, laboratoriya pishchevareniya i Varshavskaya Meditsinskaya Akademiya, kafedra obshchey i eksperimental'noy patologii.

(STOMACH--SECRETIONS). (BODY TEMPERATURE)

(HISTAMINE)

BEREZOVSKIY, V.Ya. [Berezovs'kiy, V.IA.]

Out-patient treatment of enuresis in children. Ped., akush. i gin.
22 no.4:33-34 '60. (MIRA 14:5)

1. Luts'ka mis'ka dityacha likarnya (golovniy likar - Moldavan).
(URINE--INCONTINENCE)

BEREZOVSKIY, V.Ya. [Berezova'kyi, V.IA.]

Local fluctuations of temperature in the sigmoid convolution
of the cerebral cortex in dogs. Fiziol. zhur. [Ukr.] 7 no.6:
803-810 N-D '61. (MIRA 15:3)

1. Laboratoriya fiziologii pishchevareniya Instituta fiziologii
im. A.A. Bogomol'tsa AN USSR, Kiyev.
(CEREBRAL CORTEX)
(BODY TEMPERATURE)

BEREZOVSKIY, V.Yu., inzh.

Improving chucks for electric core drills. Bezop.truda v prom.
4 no.3:20-21 '60. (MIRA 13:6)
(Core drilling)

BEREZOVSKIY, Ye., inzhener (Chernogorsk, Krasnoyarskogo kraya).

Why are valuable materials not being utilised? Stroi.mat. 3
no.8:32 Ag '57. (MIRA 10:10)
(Mines and mineral resources) (Bricks)

BEREZOVSKIY, Ye.M., Geroy Sovetskogo Soyuza; RADCHENKO, A.P.

Maintain the achievements and move forward. Avtom., telem.
i sviaz' 5 no.7:22-24 J1 '61. (MIRA 14:10)

1. Nachal'nik Lozovskoy distantzii signalizatsii i svyazi Yuzhnoy
dorogi (for Berezovskiy). 2. Sekretar' partiynoy organizatsii
Lozovskoy distantzii (for Radchenko).
(Railroads---Signaling)
(Railroads---Communication systems)

BEREZOVSKIY, Ye.M.

Checking of the operational state of automatic block system
devices on a control desk. Avtom., telem. i svyaz' 7 no.5:
32-34 My '63. (MIRA 16:7)

1. Nachal'nik Lozovakoy distantzii signalizatsii i svyazi
Yuzhnoy dorogi.
(Railroads--Signaling--Block system)

BEREZOWSKI, B.

POLAND / Cultivated Plants. Plants for Technical Use. H
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34782

Authors : Berbec, J.; Berezowski, B.

Inst : Not given

Title : Experiments (in Poland During 1947 to 1950) in
Technical Agronomy Methods for the Growing of
Wide-Leafed Tobacco of the Polanski Variety,
with Emphasis on the Effects of Potassium Fer-
tilization.

Orig Pub : Roczn. nauk rolniczych, 1956, n 72, 3, 449-464

Abstract : The variety of hybrid origin studied belongs to
the species *Nicotiana tabacum* L. obtained from
the parental varieties Kentucky and Shamshanta.
This variety is highly resistant to black root
rot. The highest crop obtained when planted in

Card 1/2

BEREZOWSKA, Barbara

Sediments of high filling of the ancient Kwis River
in the Luban Slaski region. Kwartalnik geol 6 no.4:
784-785 '62.

1. Zaklad Geologii Inzynierskiej, Instytut Geologiczny,
Warszawa.

BEREZOWSKI, Cezary

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1. Name: Berezowski, Cezary, No 5, No 10, 4-10-10-10-10 - ...
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BEREZOWSKI, Cezary, professor

On the Polish Academy of Sciences Law Institute. Review Pol Academy
6 no.3:37-40 J1-S '61.

1. Director, Law Institute, Polish Academy of Sciences, Warsaw, Palac
Staszica, Nowy Swiat 72.

BEREZOWSKI, E.

"Rationalization Brigades." P. 9, (PRZEGLAD GEODEZYJNY, Vol. 10,
No. 1, Jan. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3,
No. 12, Dec. 1954, Uncl.

BEREZOWSKI, E.

Territorial development of Lodz during the 19th century. (To be contd.) p. 49.

(PRZEGLAD GEODEZYJNY, Warszawa, Vol. 11, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 4, Jan. 1955, Uncl.

BEREZOWSKI, Eugeniusz

Poland

no title given

no affiliation given

Warsaw, Przegląd Geodezyjny, Vol 34, No 11, Nov
1962, pp 476.

"A Short Outline of the Marking of Boundaries in
the Roman Empire".

BEREZOWSKI, Eugeniusz

Outlines of land delimitation in the Roman Empire. Przegl geod 34 no.11:
476 N '62.

BEREZOWSKI, Eugeniusz

Rajmund Rembielinski, urbanist and city builder in the Mazowsze
Province during the period of the Polish Kingdom, 1815-1832
Przegl geod 34 no.8:346-349 Ag '62.

DEWIZOWSKI, Bogdan, s. 12-13.

Boundary problems in Poland; during the 13th - 18th centuries.
Przeg. geod 34 no. 32:508-510 D '62.

BEREZOWSKI, Eugeniusz

Marcin Poczobutt-Odlanicki, 1728-1810; biographic outline.
Przegl geod 35 no.3:135-136 Mr '63.

BEREZOWSKI, Eugeniusz

Problem of city surveying in Poland during the first half
of the 19th century. Przegląd 35 no.8:350-356 Ag '63.

EXCERPTA MEDICA Sec 8 Vol 12/12 Neurology Dec 59

6060. BIOLOGICAL STUDIES ON THE PROBLEM OF TOXICITY OF BLOOD SERUM IN EPILEPSY OF UNKNOWN AETIOLOGY - Badania biologiczne nad zagadnieniem toksyczności surowicy krwi w padaczce o nieznaną etiologię - Berezowski F. Szpit. dla Nerw. i Psychicznie Chorych, Kochorowa - NEUROL. NEUROCHIR. PSYCHIAT. POL. 1958, 8/3 (309-324)

The white mice were intraperitoneally inoculated with blood serum from epileptic patients, taken before breakfast (serum A) and after an epileptic fit (serum B). The control investigations were carried out with blood serum taken from schizophrenic and psychopathic patients. 34.6% of mice were dead after serum A, and 37.2% after serum B. In the control groups only 10% of mice died after the administration of schizophrenic blood serum. It is concluded that serum from epileptic patients has a toxic action, especially if it is taken immediately after an epileptic fit.

Domżał - Łódź (VIII, 2, 1958)

BSKREZOWSKI, S.

"A Soviet periodical on geography, Voprosy Geografii", p. 165 (Przegląd Geograficzny.
Polish Geographical Review, Vol. 23, 1950/51, Warszawa)

Vol. 3, No. 3

SO: Monthly List of East European Accessions,/Library of Congress, March 1954, Uncl.

BEREZOWSKI, Stanislaw Dr.:

The Geography of Transportation (Poland & Other Eastern European Countries). Geografia Transportu, Warsaw, 1954.

BEREZOWSKI, S.

Development of municipal services in Lodz during the recent decade. p. 159.
GEOGRAFIA W SZKOLE, Warszawa, Vol. 8, no. 3, May/June 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

BEŁEZOWSKI, S.

A valuable book on the Pieniny Mountains: a review. p. 22.
No. 10, Oct. 1955. TURYSTA. Warsaw, Poland

So: Eastern European Accession. Vol 5, no. 4, April 1956

BEREZOWSKI, S.

BEREZOWSKI, S. The lakeland over Dudowe Turnie. p. 16.

Vol. 28, no. 1, Jan. 1956
TURYSTA
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

BEREZOWSKI, S.

GEOGRAPHY & GEOLOGY

periodicals: RUCH TURYSTYCZNY. No. 2, Apr. / June 1958

BEREZOWSKI, S. Cultivation of the National Park of Mitosza; an example of the open-space plan of the Bulgarian suburban regions of highland tourism. p. 52.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959. Unclass.

BEREZOWSKI, Stanislaw

Geographical research on the evolution of pastoral migrations in Europe. Przegl geogr Suppl.to 32:185-191 '60. (EEAI 10:4)

1. Haute Ecole de Planification et Statistique, Department de Geographie, Varsovie.
(Europe--Economic conditions)

BEREZOWSKI, Stanislaw, prof. dr. (Warszawa, ul. Karlowicz 1/7, m47)

Articles on geography published in "Poznaj Swiat." Reviewed
by S. Berezowski. Czasopismo geograficzne 32 no.3:356-360 '61.

1. Szkoła Główna Planowania i Statystyki, Warszawa.

BEREZOWSKI, Stanislaw, prof. dr. (Warszawa, ul. Karlowicza 1/7 m 47)

"Geography of transportation of the U.S.S.R." by Nikolskiy.
Reviewed by S. Berezowski. Czasopismo geograficzne 32 no.4:
462-464 '61.

1. Uniwersytet, Warszawa.

BEREZOWSKI, Stanislaw (Warszawa)

"Spatial economic management. Theory of localization" by
A.Lösch. Reviewed by Stanislaw Berezowski. Czasop geograf
33 no.2:266-269 '62.

BEREZOWSKI, Stanislaw

"Activation of economically undeveloped regions" by B. Winiarski.
Reviewed by Stanislaw Berezowski. Czasop geograf 33 no.3:368-371 '62.

BEREZOWSKI, Stanislaw

Jubilee of the Soviet publication "Voprosy geografii." Przegł
geogr 34 no.2:351-355 '62.

BEREZOWSKI, Stanislaw (Warszawa)

"Man on the earth" by M. Sorre. Reviewed by Stanislaw
Berezowski. Czasop geograf 34 no.3:305-307 '63.

POLAND

BEREZOWSKI, Stanislaw, Department of History of Medicine (Zaklad Historii Medycyny), AM [Akademia Medyczna, Medical Academy] in Krakow (Director: Acting Professor, Dr. Z. KUKULSKI)

"The Beginnings of the Education of Surgeons at the Jagiellonian University (Uniwersytet Jagiellonski)."

Warsaw-Krakow, Przegląd Lekarski, Vol 19, Ser II, No 8, 28 Aug 63, pp 356-350

Abstract: Article on the early history of the department of surgery at the University of Krakow, which started in 1776, even prior to the Kollataj reforms at the university, at a time when the medical department numbered a faculty of two. It was ordered opened by Michal Poniatowski, with Rafal Jozef Czerwiakowski acting as its father organizer and developer from 1779 to 1803, when he retired and his work taken over by Prof. Jan Rust. Emphasis is placed on his contribution to sound surgical practice and lecturing in Polish. There are 14 footnotes to Polish sources.

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- END -

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